

**Listing of Claims:**

Claims 1-27(Cancelled).

28. (Currently amended) A process for producing a tiacumicin comprises:

culturing a microorganism in a nutrient medium to accumulate the tiacumicin in the nutrient medium; and

isolating the tiacumicin from the nutrient medium;

wherein the nutrient medium comprises an absorbent resin capable of absorbing the tiacumicin.

29. (Previously presented) The process of claim 28 wherein the tiacumicin is tiacumicin B.

30. (Currently amended) The process of claim 28 wherein the nutrient medium comprises 0.5-15% of the absorbent resin by weight.

31. (Cancelled).

32. (Currently amended) The process of claim ~~34~~ 28 wherein the adsorbent resin is selected from the group consisting Amberlite® XAD16, XAD16HP, XAD2, XAD7HP, XAD1180, XAD1600, IRC50, Duolite® XAD761 and a reverse phase silica gel.

33. (Previously presented) The process of claim 28 wherein the microorganism is *Dactylosporangium aurantiacum* subspecies *hamdenensis* NRRL 18085.

34. (Previously presented) The process of claim 28 wherein the isolating step is conducted by at least one of following methods: 1) sieving and removing undesired material by eluting with at least one solvent or a solvent mixture; 2) extraction with at least one solvent or a solvent mixture; 3) crystallization; 4) chromatographic separation; 5) High-Performance Liquid Chromatography (HPLC); 6) MPLC; 7) trituration; and 8) extraction with saturated brine with at least one solvent or a solvent mixture.

35. (Previously presented) The process of claim 28 wherein the culturing step is conducted at a temperature from about 25 to about 35°C and at a pH from about 6 to about 8.
36. (Previously presented) The process of claim 28 wherein the nutrient medium comprises one or more carbon sources selected from the group consisting of glucose, sucrose, starch, molasses, dextrins, whey, glycerol, lipids, and corn meal.
37. (Previously presented) The process of claim 28 wherein the nutrient medium is fed with an additional carbon source as needed.
38. (Previously presented) The process of claim 28 wherein the nutrient medium comprises one or more inorganic salts selected from the group consisting of  $K_2HPO_4$ ,  $MgSO_4 \cdot 7H_2O$ , and  $CaCO_3$ .
39. (Previously presented) The process of claim 28 wherein the nutrient medium comprises one or more nitrogen/organic sources selected from the group consisting of beef extract, soybean meal, whole yeast, yeast extract, soybean flour, peptone, casamino acid, fish powder, corn steep liquor, ammonium salts, casein, and amino acids.
40. (Previously presented) The process of claim 32 wherein the reverse phase silica gel is selected from the group consisting of KP-C18, KP-C18-WP and KP-C18HS.